

1. TEST REPORT ON CEMENT:**Sub:** Testing of 53 Grade Cement Sample (IS 12269-1987).{Project*: Construction of Ward Office in Mallasandra Sy. No 33 in Ward no.13,
Project Sub Division Dasarahalli Zone.}**Ref.:** Material testing/PMC/18-19,**Report Required for:** Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.**Name of the Agency/Contractor*:** Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.**PHYSICAL TESTS ON CEMENT**Grade * : 53,
Type * : O.P.C**TABLE 1.1:**

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	163 min	Shall not be less than 30 min
2	Final setting time	275min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.11 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.26 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.04 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2019-20/WO-PCCI

Date: 08-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:**Sub:** Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .{Project*: Construction of Ward Office in Mallasandra Sy. No 33 in Ward no.13,
Project Sub Division Dasarahalli Zone.}**Ref.:** Material testing/PMC/18-19,**Report Required for:** Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.**Name of the Agency/Contractor*:** Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.**1. COARSE AGGRGATES Table - SIEVE ANALYSIS :**

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007)	
		% Passing	
	40 mm Sample	Single size	Graded
40mm	97.45	85-100	95 - 100
20mm	58.35	0 -20	30- 70
10mm	23.90	0 -5	10- 35
4.75mm	4.05	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

TABLE - SIEVE ANALYSIS					
IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	
04.75	98.30	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	85.10	60-95	75-100	85-100	
01.18	65.05	30-70	55-90	75-100	
600. mic	45.75	15-34	35-59	60-79	
300.mic	24.35	5-20	8-30	12-40	
150.mic	7.10	0-10	0-10	0-10	

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Date: 12-04-2019

NC/PMC/PD/MW-13/2019-20/WO-C2

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

(Project*: Construction of Ward Office in Mallasandra Sy. No 33 in Ward no.13,
Project Sub Division Dasarahalli Zone.)

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

Sl No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	165min	Shall not be less than 30 min
2	Final setting time	285 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.92 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.16 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.16 N/Sq mm	Shall not be less than 27 N/Sqmm

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/MW-13/2019-20/WO-SSM1

Date: 12-04-2019

TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Construction of Ward Office in Mallasandra Sy. No 33 in Ward no.13,
Project Sub Division Dasarahalli Zone.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1370.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption, %	0.41 %	Not more than 2.0 %

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Date: 16-04-2019

NC/PMC/PD/MW-13/2019-20/WO-SSM2

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Construction of Ward Office in Mallasandra Sy. No 33 in Ward no.13,
Project Sub Division Dasarahalli Zone.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1355.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption, %	0.42 %	Not more than 2.0 %

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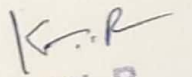
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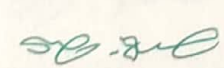
Date: 16-04-2019

TABLE - 2

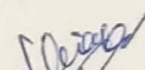
SL No	Details	For 12 mm		For 16 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	12.0 mm	12.0 mm	16.0 mm	16.0 mm
02	Observed Wt/m Length Kg/m	0.892	0.834	1.583	1.483
03	Proof stress/Yield stress, f_y , N/mm ²	552.0	500.0	562.0	500.0
04	Bend/ Re bend Test	Ok	---	Ok	---
05	Percentage of Elongation, %	20.40	16.00	21.30	16.00
06	Ultimate Tensile Strength N/mm ²	635.0	565.0	631.0	565.0

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NC/PMC/PD/MW-13/2019-20/WO-CB3A

Date: 07-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Ward Office in Mallasandra Sy. No 33 in Ward no.13,
Project Sub Division Dasarahalli Zone.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	10-05-19	07-06-19	28	22500	610	27.11	27.63
	002	"	"	"	"	620	27.56	
	003	"	"	"	"	635	28.22	

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NC/PMC/PD/MW-13/2019-20/WO-CB4A

Date: 11-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Ward Office in Mallasandra Sy. No 33 in Ward no.13,
Project Sub Division Dasarahalli Zone.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	14-05-19	11-06-19	28	22500	515	22.89	22.59
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	510	22.67	

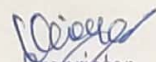
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